



Docket No.: 11657-00004-US  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:  
Douglas L. Elmore et al.

Confirmation No.: 2926

Application No.: 10/708,927

Filed: April 1, 2004

Art Unit: N/A

For: **SIMULTANEOUS MULTI-BEAM PLANAR  
ARRAY IR (PAIR) SPECTROSCOPY**

Examiner: Not Yet Assigned

**INFORMATION DISCLOSURE STATEMENT (IDS)**

**MS PATENT APPLICATION**

April 1, 2004

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed within three months of the U.S. filing date (37 CFR 1.97(b)(1)).

Copies of the references on the PTO/SB/08 are not provided.

None of the patent(s) or publication(s) cited in the attached form PTO/SB/08 (facsimile) have been supplied because they were previously cited by or submitted to the Office in a prior related application number 09/984,137, filed October 29, 2001 and relied upon in this application for an earlier filing date under 35 U.S.C. 120.

325782

Application No.: 10/708,927

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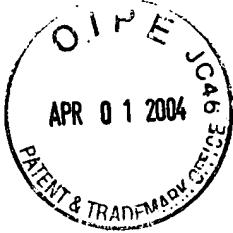
It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 22-0185, under Order No. 11657-00004-US. A duplicate copy of this paper is enclosed.

Respectfully submitted,

By Larry J. Hume  
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>		Application Number	10/708,927-Conf. #2926
		Filing Date	April 1, 2004
		First Named Inventor	Douglas L. Elmore
		Art Unit	N/A
		Examiner Name	Not Yet Assigned
Sheet	1	of	5
		Attorney Docket Number	11857-00004-US

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>3</sup>
		Country Code <sup>4</sup> -Number-Kind Code <sup>5</sup> (if known)				
*	BA	DE-29 38 844-A1	04-23-1981	Schaumburg		

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \*Applicant's unique citation designation number (optional). <sup>1</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 801.04. <sup>2</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>3</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>4</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. \*Applicant is to place a check mark here if English language Translation is attached.

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>3</sup>
*	CA	CVI Product Template 5 for SM301 PbS Array Spectrometer, <a href="http://www.civilaser.com/spectral/am301-929.asp?pcid=349">www.civilaser.com/spectral/am301-929.asp?pcid=349</a> (downloaded and printed from WWW on 9/24/01).	
*	CB	M. Stelzle, J. Tuchtenhagen, J.F. Rabolt, Novel All-Fibre Optic Fourier Transform Spectrometer with Thermally Scanned Interferometer, <i>Microchim. Acta</i> [Suppl.] Vol. 14, pp. 785-787, 1997.	
*	CC	Yamamoto, Kiyoshi; Ishida, Hatsuo: Interpretation of Reflection and Transmission Spectra for Thin Films: Reflection, Applied Spectroscopy, Vol. 48, No. 7, 1994, p. 775-787.	
*	CD	Yamamoto, Kiyoshi; Ishida, Hatsuo: Optical theory applied to Infrared spectroscopy, <i>Vibrational Spectroscopy</i> , 8 (1994), p. 1-36.	
*	CE	Gericke, Arne; Michailov, Alexander V.; Huhnerfuss, Heinrich: Polarized external infrared reflection-absorption spectrometry at the air/water interface: comparison of experimental and theoretical results for different angles of incidence, <i>Vibrational Spectroscopy</i> , 4 (1993), p. 335-348.	
*	CF	Mendelsohn, Richard; Brauner, Joseph W.; Gericke, Arne: External infrared reflection absorption spectrometry of monolayer films at the air-water interface, <i>Annu. Rec. Phys. Chem.</i> 1995, 46, p. 305-333	
*	CG	Grandbols, Michel; Desbat, Bernard; Salesse, Christian: Monitoring of phospholipids monolayer hydrolysis by phospholipase A2 by use of polarization-modulated Fourier transform infrared spectroscopy, <i>Biophysical Chemistry</i> , 88 (2000), p. 127-135.	
*	CH	Grandbols, Michel; Desbat, Bernard; Blaudez, Daniel; Salesse, Christian: Polarization-Modulated Infrared Reflection Absorption Spectroscopy Measurement of Phospholipid Monolayer Hydrolysis by Phospholipase C, <i>Langmuir</i> , Vol. 15, No. 19, 1999, p. 6594-6597.	
*	CI	Flach, Carol R.; Brauner, Joseph W.; Mendelsohn, Richard: Calcium Ion Interactions with Insoluble Phospholipid Monolayer Films at the A/W Interface, External Reflection-Absorption IR Studies, <i>Biophysical Journal</i> , Vol. 65, November 1993, p. 1994-2001.	
*	CJ	Mitchell, Melody L.; Dluhy, Richard A.: In Situ FT-IR Investigation of Phospholipid Monolayer Phase Transitions at the Air-Water Interface, <i>Journal of the American Chemical Society</i> , 1988, 110, p. 712-718.	
*	CK	Dluhy, Richard A.; Reilly, Kim E.; Hunt, Rodney D.; Mitchell, Melody L.; Mautone, Alan J.;	

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*		Mendelsohn, Richard: Infrared spectroscopic investigations of pulmonary surfactant Surface film transitions at the air-water interface and bulk phase thermotropism, Biophysical Journal, Vol. 56, December 1989, p. 1173-1181.
*	CL	Dluhy, Richard A: Quantitative External Reflection Infrared Spectroscopic Analysis of Insoluble Monolayers Spread at the Air-Water Infrared, The Journal of Physical Chemistry, Vol. 90, No. 7, 1986, p 1373-1379.
*	CM	Rabolt, J.F.; Burns, F.C.; Schirotter, N.W.; Swalen, J.D.: Molecular orientation in this monolayer films by infrared spectroscopy, Journal of Electron Spectroscopy and Related Phenomena, 30 (1983) p. 29-34.
*	CN	Flach, Carol R.; Gericke, Arne; Mendelsohn, Richard: Quantitative Determination of Molecular Chain Tilt Angles In Monolayer Films at the Air/Water Interface: Infrared Reflection/Absorption Spectroscopy of Behenic Acid Methyl Ester, J. Phys. Chem. B., Vol. 101, No. 1, 1997, p. 58-65.
*	CO	Hunt, Rodney D.; Mitchell, Melody L.; Dluhy, Richard A.: The Interfacial Structure of Phospholipid Monolayer Films: and Infrared Reflectance Study, Journal of Molecular Structure, 214 (1989), p. 93-109.
*	CP	Gericke, Arne; Mendelsohn, Richard: Partial Chain Deuteration as an IRRAS Probe of Conformational Order of Different Regions In Hexadacanoic Acid Monolayers at the Air/Water Interface, Langmuir, 1996, 12, p. 758-762.
*	CQ	Flach, Carol R.; Gericke, Arne; Mendelsohn, Richard: Structure and Orientation of Lung Surfactant SP-C and L-a-Dipalmitoylphosphatidylcholine in Aqueous Monolayers, Biophysical Journal, Vol. 73, July 1997, p. 492-498.
*	CR	Baszkin, Adam; Norde, Willem: Physical Chemistry of Biological Interfaces, Infrared Spectroscopy, p.715-747.
*	CS	Knobler, Charles M.; Desai, Rashmi C.: Phase Transitions In Monolayers, Am. Rec. Phys. Chem. 1992, 43, p. 208-236.
*	CT	Blaudez, Daniel; Buffeteau, Thierry; Desbat, Bernard; Turlet, Jean Marie: Infrared and Raman spectroscopies of monolayers at the air-water interface, Colloid & Interface Science, 4 (1999), p.265-272.
*	CU	Flach, Carol R.; Gericke, Arne; Mendelsohn, Richard: Quantitative Determination of Molecular Chain Tilt Angles In Monolayer Films at the Air/Water Interfaces: Infrared Reflection/Absorption Spectroscopy of Behenic Acid Methyl Ester, J. Phys. Chem. B, 1997, 101, p.58-65.
*	CV	Buffeteau, T.; Blaudez, D.; Pere, E.; Desbat, B.; Optical Constant Determination in the Infrared of Uniaxially Oriented Monolayers from Transmittance and Reflectance Measurements, J. Phys. Chem. B., 1999, 103, p. 5020-5027.
*	CW	Buffeteau, T.; Le Calvez, E.; Castano, S.; Desbat, B.; Blaudez, D.; Dufourcq, J.: Anisotropic Optical Constants of $\alpha$ -Helix and $\beta$ -Sheet Secondary Structures in the Infrared, American Chemical Society, p. 1-6.
*	CX	Dicko, Awa; Bourque, Hélène; Pezolet, Michel: Study by infrared spectroscopy of the conformation of dipalmitoylphosphatidylglycerol monolayers at the air-water interface and transferred on solid substrates, Chemistry and Physics of Lipids, 96 (1998), p. 125-139.
*	CY	Flach, Carol R.; Gericke, Arne; Keough, Kevin M.W.; Mendelsohn, Richard: Palmitoylation of lung surfactant protein SP-C alters surface thermodynamics, but not protein secondary structure or orientation in 1, 2-dipalmitoylphosphatidylcholine Langmuir films, Biochimica et Biophysica Acta 1416 (1999), p. 11-20.
*	CZ	Flach, Carol R.; Xu, Zhi; Xiaohong, Bi; Brauner, Joseph W.; Mendelsohn, Richard: Improved IRRAS Apparatus for Studies of Aqueous Monolayer Films: Determination of the Orientation of Each Chain in a Fatty-Acid Homogeneous Ceramide 2, Applied Spectroscopy, Vol. 55, No. 8, 2001, p. 1060-1066.
*	CA1	Blaudez, D.; Boucher, F.; Buffeteau, T.; Desbat, B.; Grandbois, M.; Salesse, C.: Anisotropic

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*		Optical Constants of Bacteriorhodopsin in the Mid-Infrared: Consequence on the Determination of $\alpha$ -Helix Orientation, Applied Spectroscopy, Vol. 53, No. 10, 1999, p. 1299-1304.	
*	CB1	Sahai, H.; Umemure, J.: Molecular Orientation in Langmuir Films of 12-Hydroxystearic Acid Studied by Infrared External-Reflection Spectroscopy, Langmuir, 1998, 14, p. 6249-6255.	
*	CC1	Grandbois, Michel; Desbat, Bernard; Salesse, Christian: Monitoring of phospholipids monolayer hydrolysis by phospholipase A2 by use of polarization-modulated Fourier transform infrared spectroscopy, Biophysical Chemistry, 88 (2000), p. 127-135.	
*	CD1	Grandbois, Michel; Desbat, Bernard; Blaudez, Daniel; Salesse, Christian: Polarization-Modulated Infrared Reflection Absorption Spectroscopy Measurement of Phospholipid Monolayer Hydrolysis by Phospholipase C, Langmuir, 1999, 15, p. 6594-6597.	
*	CE1	S.M. Alawi, T. Krug, H.H. Richardson: Characterization and Application to an Infrared Linear Array Spectrometer for Time-resolved Infrared Spectroscopy, Applied Spectroscopy, Vol. 47, No. 10, 1993, pp. 1626-1630.	
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*	CG1	J. Zhao, R.L. McCreery: Multichannel Fourier Transform Raman Spectroscopy: Combining the Advantages of CCDs with Interferometry, Applied Spectroscopy, Vol. 50, No. 9, 1996, pp. 1209-1214.	
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*	CI1	D.L. Elmore, Mei-Wei Tsao, S. Frisk, D.B. Chase, J.F. Rabolt: Design and Performance of a Planar Array Infrared Spectrograph that Operates in the 3400 to 2000 $\text{cm}^{-1}$ Region, Applied Spectroscopy, Vol. 56, No. 2, 2002.	
*	CJ1	Yamamoto, Kiyoshi; Ishida, Hatsuo: Interpretation of Reflection and Transmission Spectra for Thin Films: Reflection, Applied Spectroscopy, Vol. 48, No. 7, 1994, pp. 775-787.	
*	CK1	Yamamoto, Kiyoshi; Ishida, Hatsuo: Optical Theory Applied to Infrared Spectroscopy, Vibrational Spectroscopy, 8 (1994), pp. 1-36, pp. 1-36.	
*	CL1	Gericke, Arne; Michailov, Alexander V.; Huhnerfuss, Heinrich: Polarized external infrared reflection-absorption spectrometry at the air/water interface: comparison of experimental and theoretical results for different angles of incidence, Vibrational Spectroscopy, 4 (1993), pp. 335-348.	
*	CM1	Mendelsohn, Richard; Brauner, Joseph W.; Gericke, Arne: External infrared reflection absorption spectrometry of monolayer films at the air-water interface, Annu. Rec. Phys Chem 1995, 46, pp. 305-333.	
*	CN1	Grandbois, Michel; Desbat, Bernard; Salesse, Christian: Monitoring of phospholipids monolayer hydrolysis by phospholipase A2 by use of polarization-modulated Fourier transform infrared spectroscopy, Biophysical Chemist, 88 (2000), pp.127-135.	
*	CO1	Grandbois, Michel; Desbat, Bernard; Blaudez, Daniel; Salesse, Christian: Polarization-Modulated Infrared Reflection Absorption Spectroscopy Measurement of Phospholipid Monolayer Hydrolysis by Phospholipase C, Langmuir, Vol. 15, No. 19, 1999, pp. 6594-6597.	
*	CP1	Flach, Carol R.; Brauner, Joseph W.; Mendelsohn, Richard: Calcium Ion Interactions with Insoluble Phospholipid Monolayer Films at the A/W Interface, External Reflection-Absorption IR Studies, Biophysical Journal, Vol. 65, November 1993, pp. 1994-2001.	
*	CO1	Mitchell, Melody L.; Dluhy, Richard A.: In Situ FT-IR Investigation of Phospholipid Monolayer Phase Transitions of the Air-Water Interface, Journal of the American Chemical Society, 1988, 110, pp. 712-718.	
*	CR1	Dluhy, Richard A.; Reilly, Kim E.; Hunt, Rodney D.; Mitchell, Melody L.; Mautone, Alan J.; Mendelsohn, Richard: Infrared spectroscopic investigations of pulmonary surfactant Surface film transitions at the air-water interface and bulk phase thermotropicism, Biophysical Journal,	

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		Vol. 56, December 1989, pp. 1173-1181.	
X	CS1	Dluhy, Richard A: Quantitative External Reflection Infrared Spectroscopic Analysis of Insoluble Monolayers Spread at the Air-Water Infrared, The Journal of Physical Chemistry, Vol. 90, No. 7, 1986, pp.1373-1379.	
X	CT1	Rabolt, J.F.; Burns, F.C.; Schlotter, N.W.; Swalen, J.D.: Molecular orientation in thin monolayer films by infrared spectroscopy, Journal of Electron Spectroscopy and Related Phenomena, 30 (1983), p. 29-34.	
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X	CV1	Hunt, Rodney D.; Mitchell, Melody L.; Dluhy, Richard A.: The Interfacial Structure of Phospholipid Monolayer Films: and Infrared Reflectance Study, Journal of Molecular Structure, 214 (1989), pp. 93-109.	
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X	CX1	Gericke, Arne; Flach, Carol R.; Mendelsohn, Richard: Structure and Orientation of Lung Surfactant SP-C and L-a-Dipalmitoylphosphatidylcholine In Aqueous Monolayers, Biophysical Journal, Vol. 73, July 1997, pp. 492-499.	
X	CY1	Baszkin, Adam; Norde, Willem: Physical Chemistry of Biological Interfaces, Infrared Spectroscopy, pp. 715-747.	
X	CZ1	Knobler, Charles M.; Desai, Rashmi C.: Phase Transitions in Monolayers, Am. Rec. Phys. Chem. 1992, 43, pp. 208-236.	
X	CA2	Blaudez, Daniel; Buffeteau, Thierry; Desbat, Bernard; Turlet, Jean Marie: Infrared and Raman Spectroscopies of monolayers at the air-water interface, Colloid & Interface Science, 4 (1989), pp. 265-272.	
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X	CG2	Blaudez, D.; Boucher, F.; Buffeteau, T.; Desbat, B.; Grandbols, M.; Salesse, C.: Anisotropic Optical Constants of Bacteriorhodopsin in the Mid-Infrared: Consequence on the Determination of a-Helix Orientation, Applied Spectroscopy, Vol. 53, No. 10, 1999, pp. 1299-1304.	
✓	CH2	Sahai, H.; Urquhart, J.: Molecular Orientation in Langmuir Films of 12-Hydroxystearic Acid Studied by Infrared External-Reflection Spectroscopy, Langmuir, 1998, 14, pp. 6249-6255.	
X	CI2	Grandbols, Michel; Desbat, Bernard; Salesse, Christian: Monitoring of phospholipids	

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*		monolayer hydrolysis by phospholipase A2 by use of polarization-modulated Fourier transform infrared spectroscopy, Biophysical Chemist, 88 (2000), pp. 127-135.	
*	CJ2	Grandbois, Michel; Desbat, Bernard; Blaudez, Daniel; Salesse, Christian; Polarization-Modulated Infrared Reflection Absorption Spectroscopy Measurement of Phospholipid Monolayer Hydrolysis by Phospholipase C, Langmuir, 1999, 15, pp. 6594-6597.	

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**Inventor:** Douglas L. Elmore et al.

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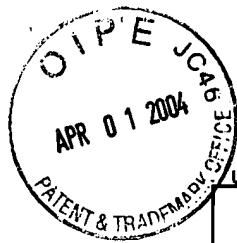
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